STRUCTURE 342

This structure is a single-barreled, corrugated metal pipe culvert, with discharge controlled by a stem operated vertical lift gate. The structure is located at the C-19 extension canal through L-306 levee.

PURPOSE

This structure is used to maintain Nicodemus Slough water level schedule when discharge capacity at C-5 is not adequate to discharge excess water.

OPERATION

The discharge will be made through S-342 when the water level in Nicodemus Slough is above its schedule and the discharge capacity at C-5 is not adequate to maintain Nicodemus Slough at its schedule. The amount of releases is limited by the downstream canal discharge capacity. Keep tailwater elevation below 15.5 feet.

FLOOD DISCHARGE CHARACTERISTICS

Design Discharge Rate	235 cfs
Headwater Elevation	N/A
Tailwater Elevation	15.5 feet

DESCRIPTION OF STRUCTURE

Type: gated corrugated metal pipe, with upstream control

Number of barrels 1

Size of barrel 72 inches

Length of barrel 105 feet

Flow line elevation 7.0 feet

Service bridge elevation 21.0 feet

Water level which will by-pass structure 24.5 feet

Gates

- Number 1
- Type sluice gate
- Size 6 feet by 6 feet square gate

Control manual

Lifting Mechanism Pedestal mounted, manually operated hoist

ACCESS From junction of State Road 78 and Potato Farm Road, go one mile west on Potato Farm Road to C-19 Extension. Go one mile north along C-19 Extension to S-342.

HYDRAULIC AND HYDROLOGIC MEASUREMENTS

Water Level upstream and downstream staff gauges

Gate Position Recorder none